FORM PTO-1449

U.S. Dept. of Commerce
Patent and Trademark Office

Atty Docket No.	Serial No.
P1869R1	10/066,009
Applicant: Schaffer, M. et al.	
Filing Date: 01 Feb 2002	Group: NOT KNOWN

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date
NC	2	4,672,108	09.06.87	Kung et al.	530	351	
	3	4,833,233	23.05.89	Carter	530	363	
	4	4,876,242	24.10.89	Applebaum, J. et al.	514	3	
	5	4,959,351	25.09.90	Grau	514	4	
	6	4,988,675	29.01.91	Froesch et al.	514	4	
	7	5,028,587	02.07.91	Dorschug et al.	514	3	
	8	5,068,224	26.11.91	Fryklund et al.	514	21	
	9	5,077,276	31.12.91	Ballard, F. et al.	514	12	
	10	5,093,317	03.03.92	Lewis et al.	514	12	
	11	5,106,832	21.04.92	Froesch et al.	514	3	
	12	5,126,324	30.06.92	Clark et al.	514	12	
	13	5,164,370	17.11.92	Ballard, F. et al.	514	12	
	14	5,187,151	16.02.93	Clark et al.	514	3	
	15	5,202,119	13.04.93	Clark et al.	424	204.1	
	16	5,273,961	28.12.93	Clark	514	8	
	17	5,374,620	20.12.94	Clark et al.	514	12	
	18	5,461,031	24.10.95	De Felippis	514	4	
	19	5,466,670	14.11.95	Dunger, D.B. et al.	514	12	
	20	5,470,828	28.11.95	Ballard et al.	514	12	
	21	5,504,188	02.04.96	Baker et al.	530	304	
	22	5,534,488	09.07.96	Hoffmann	514	3	
	23	5,547,930	20.08.96	Balschmidt	514	3	
	24	5,569,648	29.10.96	Lewis, M. et al.	514	12	
	25	5,597,893	28.01.97	Baker et al.	530	304	
	26	5,650,486	22.07.97	De Felippis	530	305	
	27	5,714,460	03.02.98	Gluckman et al.	514	3	
	28	5,747,642	05.05.98	De Felippis	530	304	
	29	5,834,422	10.11.98	Balschmidt	514	3	
	30	5,840,680	24.11.98	Balschmidt	~~55~~ 514	3	
	31	5,898,028	27.04.99	Jensen et al.	514	4	
	32	5,898,067	27.04.99	Balschmidt et al.	530	305	
	33	5,948,751	07.09.99	Kimer et al.	514	4	
	34	5,952,297	14.09.99	De Felippis et al.	514	3	
NC	35	6,127,334	03.10.00	Kimer et al.	514	3	

Examiner: Noted 6/04/04 Date Considered:

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Dept. of Commerce
Patent and Trademark Office

Atty Docket No.	Serial No.
P1869R1	10/066,009
Applicant: Schaffer, M. et al.	
Filing Date: 01 Feb 2002	Group: NOT KNOWN

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
	~~36~~	~~668,914~~	~~30.08.95~~	~~EP~~				
	~~37~~	~~WO 00/23469~~	~~27.04.00~~	~~PCT~~				
	~~38~~	~~WO 91/03253~~	~~31.03.91~~	~~PCT~~				
	~~39~~	~~WO 92/11865~~	~~23.07.92~~	~~PCT~~				
	~~40~~	~~WO 93/08826~~	~~13.05.93~~	~~PCT~~				
	~~41~~	~~WO 93/23067~~	~~25.11.93~~	~~PCT~~				
	~~42~~	~~WO 93/23071~~	~~25.11.93~~	~~PCT~~				
	~~43~~	~~WO 93/25219~~	~~23.12.93~~	~~PCT~~				
NC	44	WO 94/04569	03.03.94	PCT				
NC	45	WO 94/16722	04.08.94	PCT				
NC	~~46~~	WO 96/01124	18.01.96	PCT				
NC	~~47~~	WO 96/33216	24.10.96	PCT				
NC	48	WO 97/00895	09.01.97	PCT				
NC	~~49~~	WO 98/45427	15.10.98	PCT				
NC	50	WO 99/01476	14.01.99	PCT				
NC	51	WO 99/38011	29.07.99	PCT				

Reference are not in the file.

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

NC	52	Adams et al., "Structure of Rhombohedral 2 Zinc Insulin Crystals." Nature. 224:491-495 (Nov 1969)
NC	53	Bach and Rechler., "Insulin-Like Growth Factor Binding Proteins." Diabetes Reviews. 3(1):38-61 (1995)
NC	54	Baker et al., "Role of Insulin-Like Growth Factors in Embryonic and Postnatal Growth." Cell. 75:73-82 (Oct 1993)
NC	55	Ballard et al., "Does IGF-I Ever Act Through the Insulin Receptor?" The Insulin-Like Growth Factors and Their Regulatory Proteins., Baxter, eds., Amsterdam: Elsevier pps. 131-138 (1994)
NC	56	Bar et al., "Tissue Localization of Perfused Endothelial Cell IGF Binding Protein is Markedly Altered by Association with IGF-I." Endocrinology. 127(6):3243-3245 (1990)
NC	57	Barinaga, M., "Neurotrophic Factors Enter the Clinic [News]." Science. 264:772-774 (1994)
NC	58	Baserga., "The Insulin-Like Growth Factor 1 Receptor: A Key to Tumor Growth?" Cancer Research 55:249-252 (Jan 1995)
NC	59	Baxter, "Physiological Roles of IGF Binding Proteins" Modern Concepts of Insulin-like Growth Factors, Spencer, eds., Elsevier, New York pps. 371-380 (1991)
NC	60	Baxter., "The Somatomedins: Insulin-Like Growth Factors." Advances in Clinical Chemistry. 25:49-115 (1986)
NC	61	Bayne et al., "Structural Analogs of Human Insulin-Like Growth Factor I with Reduced Affinity for Serum Binding Proteins and the Type 2 Insulin-Like Growth Factor Receptor." J. Bio. Chem. 263:6233-6239 (1988)

Examiner	Date Considered
Attached 6/4/04	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	U.S. Dept. of Commerce	Atty Docket No.	Serial No.
	Patent and Trademark Office	P1869R1	10/066,009
LIST OF DISCLOSURES CITED BY APPLICANT		Applicant	
		Schaffer, M. et al.	
(Use several sheets if necessary)		Filing Date	Group
		01 Feb 2002	NOT KNOWN

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

NL	62	Bayne et al., "The C Region of Human Insulin-Like Growth Factor (IGF) I is Required for High Affinity Binding to the Type 1 IGF Receptor." J. Bio. Chem. 264(19):11004-11008 (1988)
NL	63	Bayne et al., "The Roles of Tyrosines 24, 31, and 60 in the High Affinity Binding of Insulin-Like Growth Factor-I to the Type I Insulin-Like Growth Factor Receptor." J. Bio. Chem. 265(26):15648-15652 (Sep 15, 1990)
NL	64	Binoux, M., "Recent Data on Somatomedins (Insulin-Like Growth Factors)." Annales d'Endocrinologie (English Abstract Included) 41:157-192 (1980)
NL	65	Blundell et al., "Insulin-Like Growth Factor: A Model for Tertiary Structure Accounting for Immunoreactivity and Receptor Binding." Proc. Natl. Acad. Sci. USA 75(1):180-184 (Jan 1978)
NL	66	Blundell et al., "Tertiary Structures, Receptor Binding, and Antigenicity of Insulinlike Growth Factors." Federation Proc. 42:2592-2597 (1983)
NL	67	Bondy, C., "Clinical Uses of Insulin-Like Growth Factor I." Annals of Internal Medicine. 120:593-601 (1994)
NL	68	Buckbinder et al., "Induction of the Growth Inhibitor IGF-Binding Protein 3 by p53." Nature. 377:646-649 (Oct 1995)
NL	69	Cascieri et al., "Mutants of Human Insulin-Like Growth Factor I with Reduced Affinity for the Type 1 Insulin-Like Growth Factor Receptor." Biochemistry 27(9):3229-3233 (May 3, 1988)
NL	70	Cascieri et al., "Structural Analogs of Human Insulin-Like Growth Factor (IGF) I with Altered Affinity for Type 2 IGF Receptors." J. Bio. Chem. 264:2199-2202 (1989)
~~NL~~	~~71~~	~~Cavanagh et al. Protein NMR Spectroscopy: Principles and Practice., New York.Academic Press, Inc. (1996)~~ No reference
NL	72	Clemmons and Van Wyk., "Somatomedin: Physiological Control and Effects on Cell Proliferation." Handbook Exp. Pharmacol. 57:161-208 (1981)
NL	73	Clemmons et al., "Competition for Binding to Insulin-Like Growth Factor (IGF) Binding Protein-2, 3, 4, and 5 by the IGFs and IGF Analogs." Endocrinology. 131(2):890-895 (Aug 1992)
NL	74	Clemmons et al., "Discrete Alterations of the Insulin-Like Growth Factor I Molecule Which Alter Its Affinity for Insulin-Like Growth Factor-Binding Proteins Result in Changes in Bioactivity." J. Bio. Chem. 265(21):12210-12216 (1990)
NL	75	Clemmons et al., "The Role of Insulin-Like Growth Factors in the Nervous System." Anal. NY Acad. Sci. USA 692:10-21 (1993)
NL	76	Clore et al., "Stereospecific Assignment of β-Methylene Protons in Larger Proteins Using 3D ^{15}N-Separated Hartmann-Hahn and ^{13}C-Separated Rotating Frame Overhauser Spectroscopy." J. Biomol. NMR 1:13-22 (1991)
NL	77	Cohen et al., "Biological Effects of Prostate Specific Antigen as an Insulin-Like Growth Factor Binding Protein-3 Protease." J. Endocrinology. 142:407-415 (1994)
NL	78	Cohen et al., "Insulin-Like Growth Factors (IGFs), IGF Receptors, and IGF-Binding Proteins in Primary Cultures of Prostate Epithelial Cells." J. Clin. Endocrin. & Metab. 73:401-407 (1991)
NL	79	Cohen et al., "The IGF Axis in the Prostate." Horm. & Metab. Res. 26:81-84 (1994)
NL	80	Cooke et al., "Solution Structure of Human Insulin-Like Growth Factor 1: A Nuclear Magnetic Resonance and Restrained Molecular Dynamics Study" Biochemistry 30:5484-5491 (1991)
NL	81	Cornilescu et al., "Protein Backbone Angle Restraints From Searching a Database for Chemical Shift and Sequence Homology." J. Biomol. NMR 13:289-302 (1999)

Examiner	Date Considered
Nathan Nguyen 6/	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	U.S. Dept. of Commerce	Atty Docket No.	Serial No.
	Patent and Trademark Office	P1869R1	10/066,009
LIST OF DISCLOSURES CITED BY APPLICANT		Applicant	
(Use several sheets if necessary)		Schaffer, M. et al.	
		Filing Date	Group
		01 Feb 2002	NOT KNOWN

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

NC	82	Culig et al., "Androgen Receptor Activation in Prostatic Tumor Cell Lines by Insulin-Like Growth Factor-I, Keratinocyte Growth Factor, and Epidermal Growth Factor." Cancer Research. 54:5474-5478 (1994)
NC	83	Cullen et al., "Insulin-Like Growth Factor Receptor Expression and Function in Human Breast Cancer." Cancer Research. 50:48-53 (1990)
NC	84	Daughaday and Rotwein., "Insulin-Like Growth Factors I and II. Peptide, Messenger Ribonucleic Acid and Gene Structures, Serum, and Tissue Concentrations." Endocrin. Rev. 10(1):68-91 (1989)
NC	85	De Meyts., "The Structural Basis of Insulin and Insulin-Like Growth Factor-I Receptor Binding and Negative Co-Operativity, and its Relevance to Mitogenic Versus Metabolic Signalling." Diabetologia. (Suppl. 2) 37:S135-S148 (1994)
NC	86	De Wolf et al., "Solution Structure of a Mini IGF-1." Protein Sci. 5:2193-2202 (1996)
NC	87	Derewenda et al., "Phenol Stabilizes More Helix in a New Symmetrical Zinc Insulin Hexamer." Nature. 338:594-596 (Apr 1989)
NC	88	Dubaquie and Lowman, "Total Alanine-Scanning Mutagenesis of Insulin-Like Growth Factor I (IGF-I) Identifies Differential Binding Epitopes for IGFBP-1 and IGFBP-3" Biochemistry 38(20):6386-6396 (1999)
NC	89	Dubaquie et al., "Binding Protein-3-Selective Insulin-Like Growth Factor I Variants: Engineering, Biodistributions, and Clearance." Endocrinology. 142(1):165-173 (Jan 2001)
NC	90	Duerr et al., "Insulin-Like Growth Factor-1 Enhances Ventricular Hypertrophy and Function During the Onset of Experimental Cardiac Failure." J. Clin. Invest. 95:619-627 (1995)
NC	91	Einstein and Low., "Insulin: Some Shrinkage Stages of Sulfate and Citrate Crystals." Acta Crystallogr. 15:32-34 (1962)
NC	92	Elahi et al., "Hemodynamic and Metabolic Responses to Human Insulin-Like Growth Factor I (IGF-I) in Men." Modern Concepts of Insulin-Like Growth Factors., Spencer, EM, ed., New York:Elsevier Science Publ. Co. pps. 219-224 (1991)
NC	93	Fejzo et al., "The SHAPES Strategy: An NMR-Based Approach for Lead Generation in Drug Discovery." Chemistry & Biology. 6:755-769 (1999)
NC	94	Feyen et al., "Recombinant Human [Cys^{281}]Insulin-Like Growth Factor-Binding Protein 2 Inhibits Both Basal and Insulin-Like Growth Factor I-Stimulated Proliferation and Collagen Synthesis in Fetal Rat Calvariae." J Bio. Chem. 266:19469-19474 (1991)
NC	95	Figueroa et al., "Recombinant Insulin-Like Growth Factor Binding Protein-1 Inhibits IGF-I, Serum, and Estrogen-Dependent Growth of MCF-7 Human Breast Cancer Cells." J. Cell Phys. 157:229-236 (1993)
NC	96	Froesch et al., "Metabolic and Therapeutic Effects of Insulin-Like Growth Factor I" Horm. Res. 42:66-71 (1994)
NC	97	Garrett et al., "Crystal Structure of the First Three Domains of the Type-1 Insulin-Like Growth Factor Receptor." Nature. 394(6691):395-399 (Jul 23, 1998)
NC	98	Guler et al., "Recombinant Human Insulin-Like Growth Factor 1 Stimulates Growth and has Distinct Effects on Organ Size in Hypophysectomized Rats." Proc. Natl. Acad. Sci. USA 85:4889-4893 (1988)
NC	99	Hammerman and Miller., "The Growth Hormone Insulin-Like Factor Axis in Kidney Revisited." Am. J. Physiol. 265:F1-F14 (1993)
NC	100	Hammerman and Miller., "Therapeutic Use of Growth Factors in Renal Failure." J. Am. Soc. Nephrol. 5:1-11 (1994)
NC	101	Hasegawa et al., "The Free Form of Insulin-Like Growth Factor I Increases in Circulation During Normal Human Pregnancy." J. Clin. Endocrinol. Metabol. 80:3284-3286 (1995)

Examiner	Date Considered
N Thed	6/4/04

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Dept. of Commerce
Patent and Trademark Office

Atty Docket No.	Serial No.
P1869R1	10/066,009
Applicant: Schaffer, M. et al.	
Filing Date: 01 Feb 2002	Group: NOT KNOWN

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

NL	102	Hizuka et al., "Measurement of Free Form of Insulin-Like Growth Factor I in Human Plasma." Growth Regulation. 1:51-55 (1991)
NL	103	Horney et al., "Elevated Glucose Increases Mesangial Cell Sensitivity to Insulin-Like Growth Factor I." Am. J. Physiol. 274:F1045-F1053 (1998)
NL	104	Hsing et al., "Regulation of Apoptosis Induced by Transforming Growth Factor-β1 in Nontumorigenic and Tumorigenic Rat Prostatic Epithelial Cell Lines." Cancer Research. 56:5146-5149 (1996)
NL	105	Humbel., "Insulin-Like Growth Factors I and II." European Journal of Biochemistry. 190:445-462 (1990)
NL	106	Huynh et al., "Estradiol and Antiestrogens Regulate a Growth Inhibitory Insulin-Like Growth Factor Binding Protein 3 Autocrine Loop in Human Breast Cancer Cells." J. Bio. Chem. 271(2):1016-1021 (1996)
NL	107	Isaksson et al., "Growth Hormone Stimulates Longitudinal Bone Growth Directly." Science. 216:1237-1239 (1982)
NL	108	Isaksson et al., "Mechanism of the Stimulatory Effect of Growth Hormone on Longitudinal Bone Growth." Endocrine Reviews. 8(4):426-438 (1987)
NL	109	Iwamura et al., "Insulin-Like Growth Factor I: Action and Receptor Characterization in Human Prostate Cancer Cell Lines." Prostate. 22:243-252 (1993)
NL	110	Jabri et al., "Adverse Effects of Recombinant Human Insulin-Like Growth Factor I in Obese Insulin-Resistant Type II Diabetic Patients." Diabetes 43:369-374 (1994)
NL	111	Janin and Chothia., "The Structure of Protein-Protein Recognition Sites." J. Bio. Chem. 265(27):16027-16030 (1990)
NL	112	Jansson et al., "The Insulin-Like Growth Factor (IGF) Binding Protein 1 Binding Epitope on IGF-I Probed by Heteronuclear NMR Spectroscopy and Mutational Analysis." J. Bio. Chem. 273(38):24701-24707 (September 18, 1998)
NL	113	Jones and Clemmons., "Insulin-Like Growth Factors and Their Binding Proteins: Biological Actions." Endocrine Rev. 16(1):3-34 (1995)
NL	114	Juul et al., "Serum Concentrations of Free and Total Insulin-Like Growth Factor-I, IGF Binding Proteins -1 and -3 and IGFBP-3 Protease Activity in Boys with Normal or Precocious Puberty." Clin. Endocrin. 44:515-523 (1996)
NL	115	Juul et al., "Serum Insulin-Like Growth Factor-I in 1030 Healthy Children, Adolescents, and Adults: Relation to Age, Sex, Stage of Puberty, Testicular Size, and Body Mass Index." J. Clin. Endocrin. & Metab. 78(8):744-752 (1994)
NL	116	Juul et al., "Serum Levels of Insulin-Like Growth Factor (IGF)-Binding Protein-3 (IGFBP-3) in Healthy Infants, Children, and Adolescents: The Relation to IGF-I, IGF-II, IGFBP-1, IGFBP-2, Age, Sex, Body Mass Index, and Pubertal Maturation." J. Clin. Endocrin. & Metab. 80:2534-2542 (1995)
NL	117	Kerr et al., "Effect of Insulin-like Growth Factor-I on the Responses to and Recognition of Hypoglycemia in Humans: A Comparison with Insulin." J. Clin. Invest. 91:141-147 (1993)
NL	118	Kuzuya et al., "Trial of Insulinlike Growth Factor I Therapy for Patients with Extreme Insulin Resistance Syndromes." Diabetes. 42:696-705 (1993)
NL	119	Laajoki et al., "Secondary Structure Determination of ^{15}N-Labelled Human Long-[Arg-3]-Insulin-Like Growth Factor 1 by Multidimensional NMR Spectroscopy." FEBS Letters 420:97-102 (1997)
NL	120	Laajoki et al., "Solution Structure and Backbone Dynamics of Long-[Arg^3]Insulin-Like Growth Factor-I." J. Bio. Chem. 275(14):10009-10015 (2000)
NL	121	Lee et al., "A Pulsed Field Gradient Isotope-Filtered 3D ^{13}C HMQC-NOESY Experiment for Extracting Intermolecular NOE Contacts in Molecular Complexes." FEBS Letters 350:87-90 (1994)

Examiner	Date Considered
N. Ahmed 6/4/04	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Dept. of Commerce
Patent and Trademark Office

Atty Docket No.	Serial No.
P1869R1	10/066,009
Applicant: Schaffer, M. et al.	
Filing Date: 01 Feb 2002	Group: NOT KNOWN

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

NE	122	Lee et al., "Activation of Estrogen Receptor-Mediated Gene Transcription by IGF-I in Human Breast Cancer Cells." J. Endocrinol. 152:39-47 (1997)
NE	123	Lee et al., "Regulation and Function of Insulin-Like Growth Factor-Binding Protein-1." Proc. Soc. Exp. Biol. & Med. 204:4-29 (1993)
NE	124	LeRoith et al., "Insulin-Like Growth Factors and Cancer." Annals of Internal Medicine. 122(1):54-59 (Jan 1995)
NE	125	LeRoith., "Editorial: Insulin-Like Growth Factor I Receptor Signaling-- Overlapping or Redundant Pathways?" Endocrinology. 141(4):1287-1288 (2000)
NE	126	Lewitt and Baxter, "Insulin-Like Growth Factor-Binding Protein-1: A Role in Glucose Counterregulation?" Mol. Cell. Endocrin. 79(1-3):C147-C152 (1991)
NE	127	Lewitt et al., "Insulin-like Growth Factor-binding Protein-1 Modulates Blood Glucose Levels" Endocrinology 129(4):2254-2256 (1991)
NE	128	Lieberman et al., "Effects of Recombinant Human Insulin-Like Growth Factor-I (rhIGF-I) on Total and Free IGF-I Concentrations, IGF-Binding Proteins, and Glycemic Response in Humans." J. Clin. Endocrinol. & Metab. 75(1):30-36 (1992)
NE	129	Liu et al., "Insulin-Like Growth Factor-I Affects Perinatal Lethality and Postnatal Development in a Gene Dosage-Dependent Manner: Manipulation Using the Cre/loxP System in Transgenic Mice." Molecular Endocrinology 12(9):1452-1462 (1998)
NE	130	Liu et al., "Mice Carrying Null Mutations of the Genes Encoding Insulin-Like Growth Factor I (Igf-1) and Type I IGF Receptor (Igf1r)." Cell. 75:59-72 (Oct 1993)
NE	131	Long et al., "Loss of the Metastatic Phenotype in Murine Carcinoma Cells Expressing an Antisense RNA to the Insulin-Like Growth Factor Receptor." Cancer Research. 55:1006-1009 (1995)
NE	132	Lowman et al., "Molecular Mimics of Insulin-Like Growth Factor 1 (IGF-1) for Inhibiting IGF-1: IGF-Binding Protein Interactions." Biochemistry 37(25):8870-8878 (1998)
NE	133	McGuire et al., "Regulation of Insulin-Like Growth Factor-Binding Protein (IGFBP) Expression by Breast Cancer Cells: Use of IGFBP-1 as an Inhibitor of Insulin-Like Growth Factor Action." J. Natl. Cancer Institute 84(17):1336-1341 (1992)
NE	*134	McPherson, Alexander. Preparation and Analysis of Protein Crystals. (Second Edition), Malabar, FL:Robert E. Krieger Publishing Comp. (1989)
NE	135	Morrow et al., "Recombinant Human (rh) IGF-1 Reverses Hyperglycemia and Improves Insulin Sensitivity in Severe Insulin Resistance" Diabetes-53rd Annual Meeting, June 12-15, 1993 (Suppl. 1, abstract No. 269) 42:83A (1993)
NE	136	Oh et al., "Antiproliferative Actions of Insulin-Like Growth Factor Binding Protein (IGFBP)-3 in Human Breast Cancer Cells." Prog. Growth Factor Res. 6(2-4):503-512 (1995)
NE	137	Oh et al., "Characterization of the Affinities of Insulin-Like Growth Factor (IGF)-Binding Proteins 1-4 for IGF-I, IGF-II, IGF-I/Insulin Hybrid, and IGF-I Analogs." Endocrinology. 132:1337-1344 (1993)
NE	138	Oh et al., "Insulin-Like Growth Factor (IGF)-Independent Action of IGF-Binding Protein-3 in Hs578T Human Breast Cancer Cells." J. Bio. Chem. 268(20):14964-14971 (1993)
NE	139	Peterkofsky et al., "Elevated Activity of Low Molecular Weight Insulin-Like Growth Factor-Binding Proteins in Sera of Vitamin C-Deficient and Fasted Guinea Pigs" Endocrinology 128(4):1769-1779 (1991)
NE	140	Pietrzkowski et al., "Inhibition of Cellular Proliferation by Peptide Analogues of Insulin-Like Growth Factor 1." Cancer Research. 52:6447-6451 (1992)
NE	141	Powell-Braxton et al., "IGF-I is Required for Normal Embryonic Growth in Mice." Genes Dev. 7:2609-2617 (1993)

Examiner: [signature] 6/4/04 — Date Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	U.S. Dept. of Commerce Patent and Trademark Office	Atty Docket No. P1869R1	Serial No. 10/066,009
LIST OF DISCLOSURES CITED BY APPLICANT (Use several sheets if necessary)		Applicant Schaffer, M. et al.	
		Filing Date 01 Feb 2002	Group NOT KNOWN

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

NL	142	Pratt and Pollak., "Insulin-Like Growth Factor Binding Protein 3 (IGF-BP3) Inhibits Estrogen-Stimulated Breast Cancer Cell Proliferation." Biophys. Res. Comm. 198(1):292-297 (1994)
NL	143	Quin et al., "Acute Response to Recombinant Insulin-Like Growth Factor I in a Patient with Mendenhall's Syndrome." New Engl. J. Med. 323(20):1425-1426 (1990)
NL	144	Quinn et al., "Insulin-Like Growth Factor Expression in Human Cancer Cell Lines." J. Bio. Chem. 271(19):11477-11483 (1996)
NL	145	Rajah et al., "Insulin-Like Growth Factor (IGF)-Binding Protein-3 Induces Apoptosis and Mediates the Effects of Transforming Growth Factor-β1 on Programmed Cell Death through a p53- and IGF-Independent Mechanism." J. Bio. Chem. 272(18):12181-12188 (1997)
NL	146	Reilly and Fairbrother., "A Novel Isotope Labeling Protocol for Bacterially Expressed Proteins." J. Biomol. NMR 4:459-462 (1994)
NL	147	Rinderknecht and Humbel, "Amino-Terminal Sequences of Two Polypeptides From Human Serum with Nonsuppressible Insulin-Like and Cell-Growth-Promoting Activities: Evidence for Structural Homology with Insulin B Chain." Proc. Natl. Acad. Sci. USA 73(12):4379-4381 (1976)
NL	148	Rinderknecht and Humbel., "The Amino Acid Sequence of Human Insulin-Like Growth Factor I and Its Structural Homology with Proinsulin." Journal of Biological Chemistry 253(8):2769-2776 (1978)
NL	149	Rohlik et al., "An Antibody to the Receptor for Insulin-Like Growth Factor I Inhibits the Growth of MCF-7 Cells in Tissue Culture." Biochem. & Biophys. Res. Comm. 149(1):276-281 (Nov 1987)
NL	150	Saad et al., "Low-Doses of Insulin-Like Growth Factor-I Improve Insulin Sensitivity." Diabetologia. (Abstract 152) 37:A40 (Supp. 1 1994)
NL	151	Sato et al., "Three-Dimensional Structure of Human Insulin-Like Growth Factor-I (IGF-I) Determined by ^{1}H-NMR and Distance Geometry." Int. J. Pep. Protein Res. 41:433-440 (1993)
NL	152	Schalch et al., "Short-Term Effects of Recombinant Human Insulin-Like Growth Factor I on Metabolic Control of Patients with Type II Diabetes Mellitus" J. of Clinical Endocrinology & Metabolism 77(6):1563-1568 (1993)
NL	153	Schalch et al., "Short-Term Metabolic Effects of Recombinant Human Insulin-Like Growth Factor I (rhIGF-I) in Type II Diabetes Mellitus." Modern Concepts of Insulin-Like Growth Factors., Spencer, ed., New York:Elsevier Science Publ. Co. pps. 705-713 (1991)
NL	154	Schlechter et al., "Evidence Suggesting that the Direct Growth-Promoting Effect of Growth Hormone on Cartilage In Vivo is Mediated by Local Production of Somatomedin." Proc. Natl. Acad. Sci. USA 83:7932-7934 (1986)
NL	155	Schoenle et al., "Recombinant Human Insulin-Like Growth Factor I (rhIGF I) Reduces Hyperglycaemia in Patients with Extreme Insulin Resistance." Diabetologia. 34:675-679 (1991)
NL	156	Sjogren et al., "Liver-Derived Insulin-Like Growth Factor I (IGF-I) is the Principal Source of IGF-I in Blood but is Not Required for Postnatal Body Growth in Mice." Proc. Natl. Acad. Sci. USA 96:7088-7092 (1999)
NL	157	Smith et al., "Essential Role of Growth Hormone in Ischemia-Induced Retinal Neovascularization." Science. 276:1706-1709 (1997)
NL	158	Steller et al., "Overexpression of the Insulin-Like Growth Factor-1 Receptor and Autocrine Stimulation in Human Cervical Cancer Cells." Cancer Research. 56:1761-1765 (1996)
NL	159	Stracke et al., "The Type I Insulin-Like Growth Factor Receptor is a Motility Receptor in Human Melanoma Cells." J. Bio. Chem. 264(36):21544-21549 (Dec 1989)
NL	160	Suikkari et al., "Insulin Regulates the Serum Levels of Low Molecular Weight Insulin-Like Growth Factor-Binding Protein." J. Clin. Endocrin. Metabol. 66:266-272 (1988)
NL	161	Tollefsen and Thompson., "The Structural Basis for Insulin-Like Growth Factor I Receptor High Affinity Binding." J. Bio. Chem. 263(31):16267-16273 (1988)

Examiner	Date Considered
N Steed 6/4/04	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 — U.S. Dept. of Commerce — Patent and Trademark Office

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

Atty Docket No.	Serial No.
P1869R1	10/066,009
Applicant	
Schaffer, M. et al.	
Filing Date	**Group**
01 Feb 2002	NOT KNOWN

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

NE	162	Torres et al., "Solution Structure of Human Insulin-Like Growth Factor II: Relationship to Receptor and Binding Protein Interactions." J. Mol. Bio. 248(2):385-401 (Apr 28, 1995)
NE	163	Usala et al., "Brief Report: Treatment of Insulin-Resistant Diabetic Ketoacidosis with Insulin-Like Growth Factor I in an Adolescent with Insulin-Dependent Diabetes." New Engl. J. Med. 327(12):853-857 (1992)
NE	164	Vajdos et al., "Crystal Structure of Human Insulin-Like Growth Factor-1: Detergent Binding Inhibits Binding Protein Interactions." Biochemistry 40:11022-11029 (2001)
NE	165	Valentinis et al., "The Human Insulin-Like Growth Factor (IGF) Binding Protein-3 Inhibits the Growth of Fibroblasts with a Targeted Disruption of the IGF-I Receptor Gene." Molecular Endocrinology. 9:361-367 (1995)
NE	166	Van Holde., "X-Ray Diffraction." Physical Biochemistry., NJ:Prentice Hall, Chapter 11, pps. 221-239 (1971)
	167	~~Van Wyk et al., "The Somatomedins: A Family of Insulinlike Hormones Under Growth Hormone Control." Recent Prog. Horm. Res. 30:259-318 (1974)~~ Reference is not in the file
NE	168	Vlachopapadopoulou et al., "Metabolic and Clinical Response to Recombinant Human Insulin-like Growth Factor I in Myotonic Dystrophy - A Clinical Research Center Study" J. Clin. Endo. Metab. 80(12):3715-3723 (1995)
NE	169	Weber., "Physical Principles of Protein Crystallization." Advances in Protein Chemistry. 41:1-36 (1991)
NE	170	Yee et al., "Insulin-Like Growth Factor Binding Protein 1 Expression Inhibits Insulin-Like Growth Factor I Action in MCF-7 Breast Cancer Cells." Cell Growth & Diff. 5:73-77 (1994)
NE	171	Zenobi et al., "Effects of Insulin-Like Growth Factor-I on Glucose Tolerance, Insulin Levels, and Insulin Secretion." J. Clin. Invest. 89:1908-1913 (1992)
NE	172	Zenobi et al., "Insulin-Like Growth Factor-I Improves Glucose and Lipid Metabolism in Type 2 Diabetes Mellitus." J. Clin. Invest. 90:2234-2241 (1992)
NE	173	Zeslawski et al., "The Interaction of Insulin-Like Growth Factor-I with the N-Terminal Domain of IGFBP-5." EMBO Journal. 20(14):3638-3644 (2001)

Examiner	Date Considered
Noted 6/4/04	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT PTO-1449	ATTY. DOCKET NO.: 39766-0129A	SERIAL NO.: 10/066,009
	APPLICANT : Schaffer, Michelle et al.	
	FILING DATE: 2/1/02	GROUP: 1646

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
						☐	☐
						☐	☐
						☐	☐
						☐	☐

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

NC	Baxter, Robert C., "Insulin-like Growth Factor (IGF)-binding Proteins: Interactions With IGFs and Intrinsic Bioactivities", AM J PHYSICAL ENDOCRINAL METAB., 278: E967-E976, 2000.
NC	Bühler, Hemut, et al., "Inhibition of Rat Renal 11ß-Hydroxysteroid Dehydrogenasse by Steroidal Compounds and Triterpenoids; Structure/Function Relationship", BIOCHIMICA ET BIOPHYSICA ACTA, 1075, pp. 206-212 (1991).
NC	Hjelmeland, Leonard M., et al., "A New Class of Nonionic Detergents with a Gluconamide Polar Group", ANALYTICAL BIOCHEMISTRY, 130, pp. 485-490 (1983).
NC	Sedzik, J., et al., "Solubilization of PNS Myelin Membrane Proteins by Detergents", MEMBRANE BIOPHYSICS AND BIOCHEMISTRY, Vol. 11, No. 113, pp. 2559-2563, August 2000.

EXAMINER [signature] 6/4/04	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 1

FORM PTO-1449

U.S. Dept. of Commerce
Patent and Trademark Office

Atty Docket No.	Serial No.
P1869R1	10/066,009
Applicant: Schaffer, M. et al.	
Filing Date: 01 Feb 2002	Group: NOT KNOWN

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
ML	1	WO 01/72771	04.10.01	PCT				

Examiner: Checked 6/4/04

Date Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

USCOMM-DC 80-398.

FORM PTO-1449

U.S. Dept. of Commerce
Patent and Trademark Office

Atty Docket No.	Serial No.
P1869R1	10/066,009
Applicant: Schaffer, M. et al.	
Filing Date: 01 Feb 2002	Group: 1646

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
NE	178	02/098914	12.12.02	WO				

Examiner: NEthred 6/14/04

Date Considered:

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Dept. of Commerce
Patent and Trademark Office

Atty Docket No.	Serial No.
P1869R1	10/066,009
Applicant: Schaffer, M. et al.	
Filing Date: 01 Feb 2002	Group: 1646

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

NC	174	De Bree et al., "Preparation and Characterization of the Recombinant Selenomethionine Analogue of Insulin-Like Growth Factor-1." Protein Expression & Purification. 13:319-325 (1998)
NC	175	Eisenstein et al., "Biological Function Made Crystal Clear - Annotation of Hypothetical Proteins Via Structural Genomics." Current Opinion in Biotechnology 11(1):25-30 (Feb 2000)
NC	176	Gilliland and Ladner., "Cystallization of Biological Macromolecules for X-Ray Diffraction Studies." Current Opinion in Structural Biology 6(5):595-603 (Oct 1996)
NC	177	Skelly and Madden., "Overexpression, Isolation, and Crystallization of Proteins." Methods in Molecular Biology., New Jersey:Humana Press Inc., Chapter 2, Vol. 56:23-53 (1996)

Examiner	Date Considered
N Kaufman 6/4/04	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.